

ABSTRACT

An improved cathode material for nonaqueous electrolyte lithium electrochemical cell is described. The preferred active material is ϵ -phase silver vanadium oxide ($\text{Ag}_2\text{V}_4\text{O}_{11}$) coated with a protective layer of a metal oxide, preferably γ -phase SVO ($\text{Ag}_{1.2}\text{V}_3\text{O}_{1.8}$). The SVO core provides high capacity and rate capability while the protective coating reduces reactivity of the active particles with electrolyte to improve the long-term stability of the cathode.